

HENRY H. SMITH.

Improvement in Wash-Boilers.

No. 128,185.

Patented June 18, 1872.

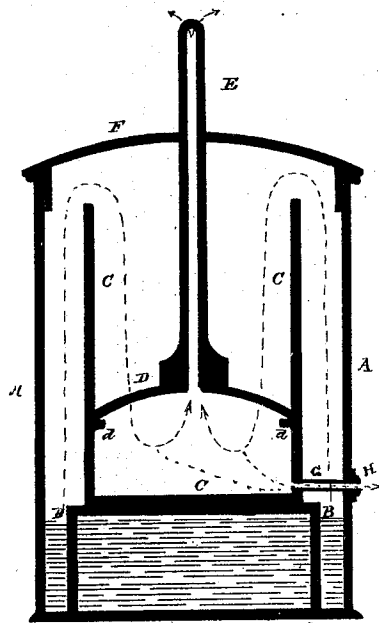


Fig. 1.

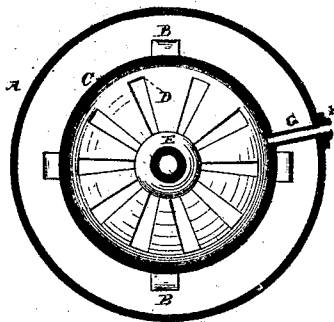


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY H. SMITH, OF BAINBRIDGE, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 128,185, dated June 18, 1872.

Specification describing certain Improvements in Steam Wash-Boilers, invented by HENRY H. SMITH, of Bainbridge, in the county of Lancaster and State of Pennsylvania.

The nature of my invention consists in the use of two vessels, one within the other, the outer vessel only having water put in it, the inner vessel raised upon a tripod or other support. This vessel is provided with a diaphragm or disk plate, slotted, and centrally connected with a tube passing out through the cover. The clothing, previously soaked and soaped, is put on the diaphragm raised above the bottom. Thus, when the tight cover is put on and the water brought to a boil the steam rises up between the two vessels and is forced down through the clothing in the inner vessel and perforations of the disk or diaphragm, and can only find vent centrally beneath the disk, through a tube or pipe, to the outside. The condensed and dirty water is kept apart beneath the disk, thus preventing the action of the dirty water on the clothing.

The accompanying drawing, making a part of this specification, clearly illustrates the construction and arrangement thereof.

A shows the outer boiler with its cover F. B shows a tripod or support for the reception of the inner boiler C. This boiler may be slightly inclined outward, so as to form the support of the disk D, or it may be made parallel, with flange pieces *d* to support the inner boiler C; the object being to raise the inner boiler a sufficient height from or above the bottom for the boiling water beneath; so, also, by elevating the disk D first, to support the articles to be washed, a sufficient height above the bottom to prevent being soiled by the condensed steam turned into

dirty water, (a great objection to boilers in which the dirty condensed water is left in contact with the clothing.) The second object of the disk or diaphragm D (with its slotted perforation around the circumference, and a central tube, E, open from below the disk, which extends upward through the cover F) is for the purposes already intimated. The steam generated in the outer vessel has no escape without following the course indicated by the dotted lines, thus carrying it all around the entire circumference of the boiler and through it at all points, penetrating the clothing, and in one continuous current, without returning when soiled, but kept apart beneath the clothing. Any steam that may not be condensed will find vent from beneath the disk through the tube E. A pipe, G, may be inserted near the bottom of the inner boiler C to extend through a short tube, H, on the outer boiler, having a screw end for a water-tight nut and washer for drawing off the dirty water, if necessary, and prevent leaking; this may be shut with a plug, or used open instead of the central tube E.

I am not aware that double boilers arranged as herein set forth have ever been used in combination with a disk and tube or pipe.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the boilers A C, in combination with the disk D and tube or pipes E G, substantially in the manner and for the purpose specified.

HENRY H. SMITH.

Witnesses:

WM. B. WILEY,
JACOB STAUFFER.